**BIO-COM**

**EXIT EXAM**

**STUDY GUIDE**

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1. The part of the experiment in which all conditions are kept the same (do not vary) are called \_\_\_.

2. The diffusion of water is called \_\_\_\_.

3. Identify the correct order of steps in the scientific method.

4. How many chromosomes are shown in a normal human karyotype?

5. The organelle that controls most of the cell processes and contains DNA is the \_\_\_\_.

6. What is most likely to bring together two recessive alleles for a genetic defect?

7. The regulation of an organism’s internal environment to maintain conditions suitable for life is the definition of \_\_\_\_.

8. The process of making changes in the DNA code of a living organism is called \_\_\_.

9. During what phase of mitosis does the nuclear envelope disappear?

10. When lions prey on a herd of antelopes, some antelopes are killed and some escape. Which part of Darwin’s concept of natural selection might be used to describe this situation

11. What is the correct equation for cellular respiration?

12. The base of all food webs on the planet are \_\_\_\_.

13. What are parts of the cell theory except:

14. Human A, B, O blood type is an example of \_\_\_\_.

15. Which organic compound is the main source of energy for living things?

16. In the P generation, a tall plant is crossed with a short plant. The probability that an F1 plant will be tall is \_\_\_.

17. Painted turtles are cold-blooded animals that often sit on logs and bask in the sun.

Why might they do this?

18. A type of protein that speeds up chemical reactions is/are called \_\_\_.

19. Mendel called the “factors” that determine traits \_\_\_\_\_.

20. Organic compounds that contain DNA and RNA are referred to a \_\_\_\_.

21. In 1859, Charles Darwin published his revolutionary scientific ideas in a work titled \_\_\_.

22. The measure of how acidic or basic something is its \_\_\_\_.

23. Any mistake or change in DNA is a \_\_\_\_\_.

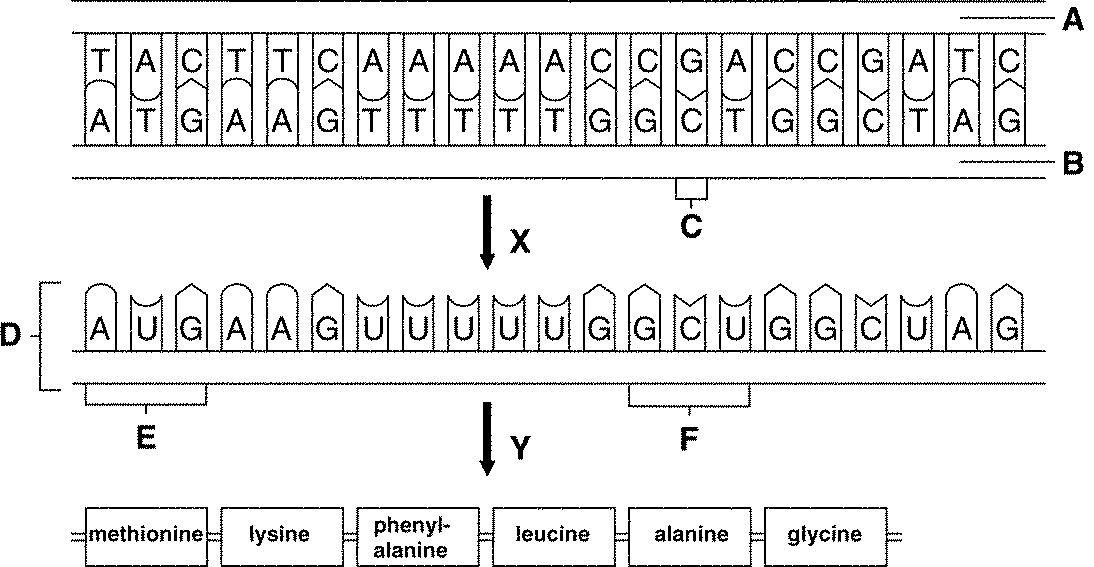
24. The place in an ecosystem where an organism lives is the organism’s \_\_\_.

25. The process where the mRNA is “decoded” into protein is called \_\_\_\_.

26. A student is collecting the gas given off from a plant in bright sunlight at a temperature of 27°C. The gas being collected is probably \_\_\_\_\_.

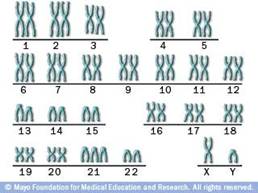
27. Organic compounds that make, replace, and repair cells are \_\_\_\_.

28. \_\_\_\_ is the process where a piece of DNA is copied into mRNA



**FIGURE 12-4**

29. What process does structure X represent in Figure 12-4?



**Figure 14–1**

30. How would you interpret the karyotype in Figure 14-1?